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# NOTICE OF ALLOWANCE AND FEE(S) DUE

38107

7590

05/14/2009

PHILIPS INTELLECTUAL PROPERTY & STANDARDS P. O. Box 3001 BRIARCLIFF MANOR, NY 10510 EXAMINER

SANEI, MONA M

ART UNIT PAPER NUMBER

2882

DATE MAILED: 05/14/2009

ĺ	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
•	10/599,418	09/28/2006	Zhongmin Steve Lin	PHUS040183US3	6123

TITLE OF INVENTION: DYNAMIC DOSE CONTROL FOR COMPUTED TOMOGRAPHY

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	08/14/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

#### PART B - FEE(S) TRANSMITTAL

### Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where

appropriate. All further indicated unless correct maintenance fee notifica	ed below or directed oth	ng the Patent, advance on nerwise in Block 1, by (a	rders and notification  a) specifying a new co	of m orresp	aintenance fees will condence address; an	be mailed to the current d/or (b) indicating a sep	t correspondence address as arate "FEE ADDRESS" for
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)  38107 7590 05/14/2009				Fee(s	s) Transmittal. This c rs. Each additional pa its own certificate of	ertificate cannot be used aper, such as an assignment mailing or transmission.	or domestic mailings of the for any other accompanying ent or formal drawing, must
PHILIPS INTE P. O. Box 3001 BRIARCLIFF M	ANDARDS		Certificate of Mailing or Transmission  I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.				
							(Depositor's name)
				_			(Signature) (Date)
					1.,		
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR		A	TTORNEY DOCKET NO.	CONFIRMATION NO.
10/599,418 TITLE OF INVENTION	09/28/2006 N: DYNAMIC DOSE CO	ONTROL FOR COMPUT	Zhongmin Steve Li ED TOMOGRAPHY	ın		PHUS040183US3	6123
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nonprovisional	NO	\$1510	\$300		\$0	\$1810	08/14/2009
EXAM	MINER	ART UNIT	CLASS-SUBCLASS				
SANEI, 1	MONA M	2882	378-160000				
CFR 1.363).  Change of corresp Address form PTO/S.  "Fee Address" ind PTO/SB/47; Rev 03-(Number is required.  ASSIGNEE NAME A	ND RESIDENCE DATA less an assignee is ident th in 37 CFR 3.11. Com	Inge of Correspondence  "Indication form led. Use of a Customer  A TO BE PRINTED ON	(1) the names of u or agents OR, alter (2) the name of a s registered attorney 2 registered patent listed, no name wil	ip to native single or ag attor ll be por type he pa	firm (having as a megent) and the names of neys or agents. If no orinted.  e)  tent. If an assignee sssignment.	ember a 2 of up to name is 3 is identified below, the of	locument has been filed for
4a. The following fee(s)  Issue Fee Publication Fee (N		permitted)	b. Payment of Fce(s): ( A check is enclos Payment by credit The Director is he	Pleased. t card	se first reapply any p  1. Form PTO-2038 is authorized to charge	previously paid issue fee attached. the required fee(s), any de	
a. Applicant claim	ntus (from status indicated as SMALL ENTITY statu	ıs. See 37 CFR 1.27.	☐ b. Applicant is no	long	er claiming SMALL	ENTITY status. See 37 C	FR 1.27(g)(2).
NOTE: The Issue Fee an interest as shown by the	records of the United Sta	uired) will not be accepte ites Patent and Trademark	a from anyone other the Office.	nan th	e applicant; a register	rea attorney or agent; or t	he assignee or other party in
Authorized Signature					Date		
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an application. Confiden submitting the complete this form and/or suggest	tiality is governed by 35 d application form to the ions for reducing this bu. Virginia 22313-1450. DC	U.S.C. 122 and 37 CFR USPTO. Time will vary rden, should be sent to th	1.14. This collection is depending upon the i e Chief Information O	s esti ndivi ffice	mated to take 12 min dual case. Any comm r. U.S. Patent and Tra	utes to complete, includinents on the amount of tidemark Office, U.S. Der	d by the USPTO to process) ng gathering, preparing, and me you require to complete artment of Commerce, P.O. for Patents, P.O. Box 1450,

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PHILIPS INTEL	LECTUAL PROPER	SANEI, MONA M			
P. O. Box 3001		ART UNIT	PAPER NUMBER		
BRIARCLIFF MA	BRIARCLIFF MANOR, NY 10510				
			DATE MAILED: 05/14/2009		

# **Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)**

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 278 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 278 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

	Application No.	Applicant(s)				
	10/599.418	LIN, ZHONGMIN STEVE				
Notice of Allowability	Examiner	Art Unit				
	MONA M. SANEI	2882				
The MAILING DATE of this communication appe All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in to or other appropriate commun IGHTS. This application is su	this application. If not included ication will be mailed in due course. <b>THIS</b>				
1. This communication is responsive to <u>4/21/09</u> .						
2. The allowed claim(s) is/are <u>4-7,9,10,12,14-17 and 22</u> .						
<ol> <li>Acknowledgment is made of a claim for foreign priority una)</li> <li>All b)</li> <li>Some* c)</li> <li>None of the:</li> <li>Certified copies of the priority documents have</li> <li>Certified copies of the priority documents have</li> <li>Copies of the certified copies of the priority do</li> <li>International Bureau (PCT Rule 17.2(a)).</li> </ol> * Certified copies not received:	e been received. e been received in Application	No				
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		a reply complying with the requirements				
<ol> <li>A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give</li> </ol>						
5. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.					
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached						
1)  hereto or 2)  to Paper No./Mail Date						
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date						
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t						
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.						
Attachment(s)  1. ☐ Notice of References Cited (PTO-892)  2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)  3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date  4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material  /Mona M Sanei/	6.  ☐ Interview Sur Paper No./M 7.  ☐ Examiner's A					
Examiner, Art Unit 2882						

Application/Control Number: 10/599,418 Page 2

Art Unit: 2882

#### **DETAILED ACTION**

### Allowable Subject Matter

1. Claims 4-7, 9, 10, 12, 14-17, and 22 are allowed.

The following is an examiner's statement of reasons for allowance:

- Regarding claim 5, the prior art fails to teach or fairly suggests a method requiring the step of estimating a constant of proportionality relating x-ray current of an x-ray radiation source and attenuation of radiation raised to the selected power, the constant of proportionality being estimated based on an initial transmission tomographic imaging data acquired in an initial revolution and, prior to acquiring tomographic imaging data at an upcoming position or angular bin, adjusting the x-ray current proportional to the estimated attenuation of radiation for the upcoming position or angular bin raised to the selected power using the estimated constant of proportionality, in combination with all the other limitations of the claim.
- Regarding claim 14, the prior art fails to teach or fairly suggests a method requiring the step of determining a baseline current component based on a ratio of an estimated baseline attenuation of an upcoming position or angular bin and an average attenuation of the initial revolution, determining an axial current component based on a ratio of an estimated axial attenuation of the upcoming position or angular bin and a maximum or average attenuation of a present revolution, and determining a total x-ray current by combining the baseline and axial x-ray current components, in combination with all the other limitations of the claim.
- Claims 4, 6, 7, 9, 10, 12, 15, 16, and 22 are allowable by virtue of their dependencies.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue

Application/Control Number: 10/599,418 Page 3

Art Unit: 2882

fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for

Allowance."

Conclusion

2. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to MONA M. SANEI whose telephone number is (571)272-8657.

The examiner can normally be reached on M-W 9-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Edward J. Glick can be reached on (571) 272-2490. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would

like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Mona M Sanei/

Examiner, Art Unit 2882

/Edward J Glick/

Supervisory Patent Examiner, Art Unit 2882